

## **LISTING OF THE CLAIMS:**

1. (currently amended) A method for the regeneration of a cotton or soybean plant comprising the steps of:

a) providing a cotton or soybean plant zygotic embryo comprising a shoot meristem or primordia;

b) culturing the zygotic embryo in a media comprising ~~an~~ the apical dominance inhibitor ~~selected from the group consisting of dikegulac, methyl laurate and octadecyl polyethoxyethanol~~ to induce adventitious meristem formation from the zygotic embryo to produce shoots; and

c) rooting the shoots resulting from said adventitious meristems to produce a plant.

2. (original) The method of claim 1, wherein said media also contains an auxin or a cytokinin.

3. (original) The method of claim 2, wherein said auxin is IAA.

4. (original) The method of claim 2, wherein said cytokinin is BA or ZR.

5. (original) The method of claim 1, wherein said apical dominance inhibitor is dikegulac.

6. (original) The method of claim 5, wherein the dikegulac is a salt.

7. (original) The method of claim 5, wherein the dikegulac is a free acid.

8. (canceled)

9. (previously presented) The method of claim 5, wherein the dikegulac is present at a concentration from about 5 to about 5000 mg/L.

10. (original) The method of claim 9, wherein the dikegulac is present at a concentration from about 10 to about 1000 mg/L.

11. (original) The method of claim 1, wherein said plant is a dicotyledonous plant.

12. (original) The method of claim 11, wherein said plant is a cotton plant.

13. (canceled)

14. (original) The method of claim 11, wherein said plant is a soybean plant.

15-17. (canceled)

18. (previously presented) The method of claim 1, wherein the media is MS, MS/B5, GD1, Gamborg's media, WPM, modified LP, DKW, Nitsch and Nitsch media, or Schenk and Hildebrandt media.

19. (currently amended) A method for the regeneration of a transgenic cotton or soybean plant comprising the steps of:

- a) providing an explant of a cotton or soybean plant comprising an embryo;
- b) introducing recombinant DNA into the embryo to generate a transformed embryo;
- c) culturing the transformed embryo in a media comprising ~~an~~ the apical dominance inhibitor ~~selected from the group consisting of dikegulac, methyl laurate and octadecyl-polyethoxyethanol~~ to induce adventitious meristem formation from the transformed embryo and producing transformed shoots therefrom; and
- d) rooting the transformed shoots to produce a transgenic plant.

20. (currently amended) A method for the regeneration of a transgenic cotton or soybean plant comprising the steps of:

- a) providing an embryo of a cotton or soybean plant comprising a shoot meristem or primordia;
- b) culturing the embryo in a media comprising ~~an~~ the apical dominance inhibitor ~~selected from the group consisting of dikegulac, methyl laurate and octadecyl-polyethoxyethanol~~ to induce adventitious shoot meristem formation from the embryo;
- c) introducing recombinant DNA into the embryo to generate a transformed embryo and producing transformed shoots therefrom; and

d) rooting the transformed shoots to produce a transgenic plant.

21-23. (canceled)